

Application for Patent on "An Integrated System For Shellfish Production"
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FIG. 1 – FLUPSY (Floating Upweller System)

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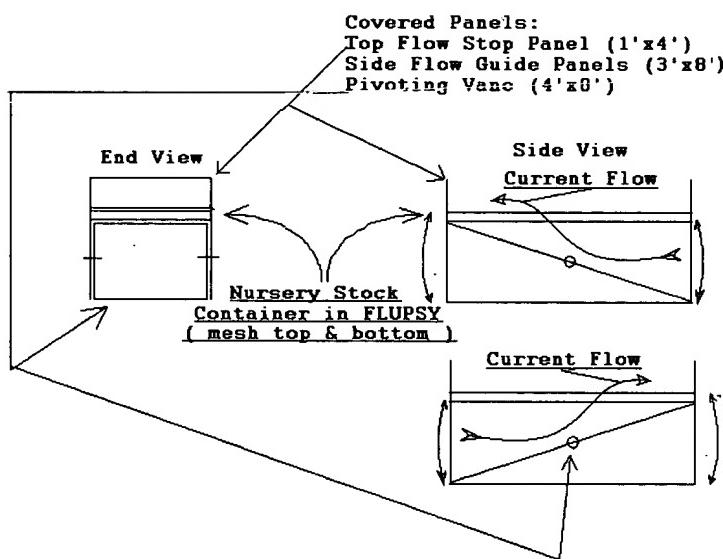


FIG. 2 – BUPSY (Bottom Upweller System)

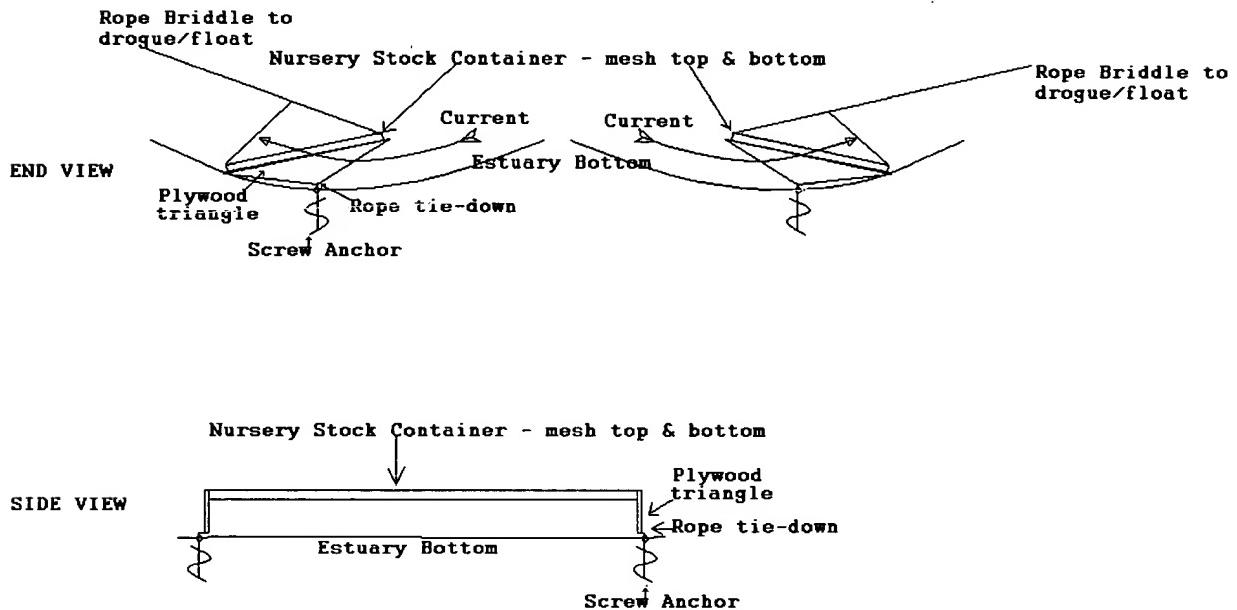
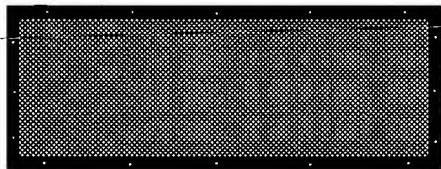


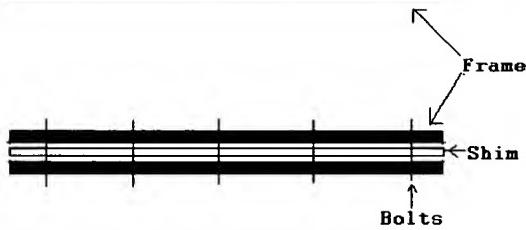
FIG. 3 - Nursery Stock Container
Provisional Patent Application

TOP VIEW - Two ridged frames, each covered with mesh (sized to retain shellfish), bolted together.



The frames are separated with a combination of ridged and compressible (closed cell foam) shims so that the shellfish are gently but securely held by the assembly.

SIDE VIEW



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FIG. 4 - End View of
Spawntoon

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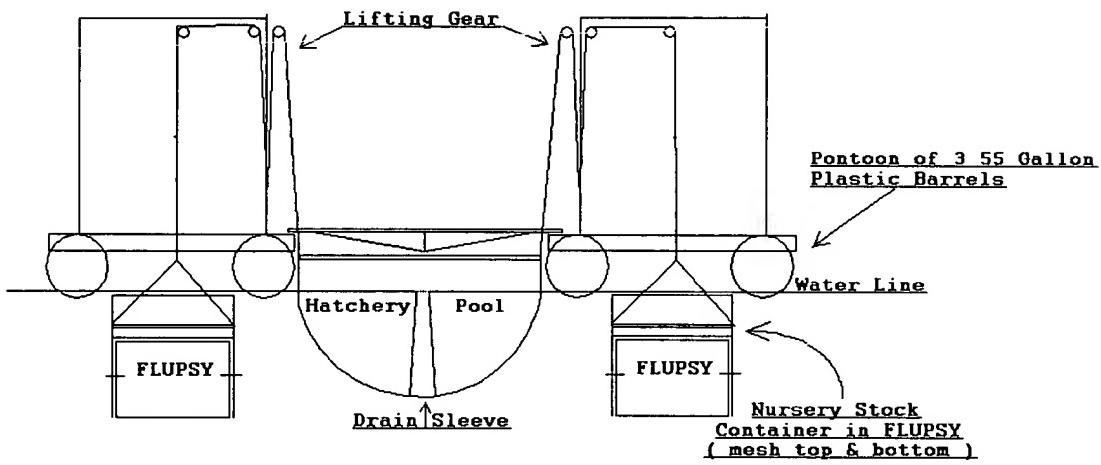


FIG. 5 – Drain Device for floating hatchery live-well

Hatchery Live-Well
Filled with filtered water for spawn. The drain device is plugged. The ridged frame of the Hatchery Pool is either held above the water by ropes or supported by the floatation of the live-well itself.

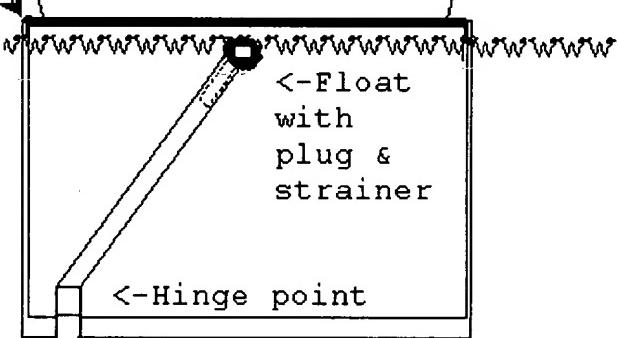
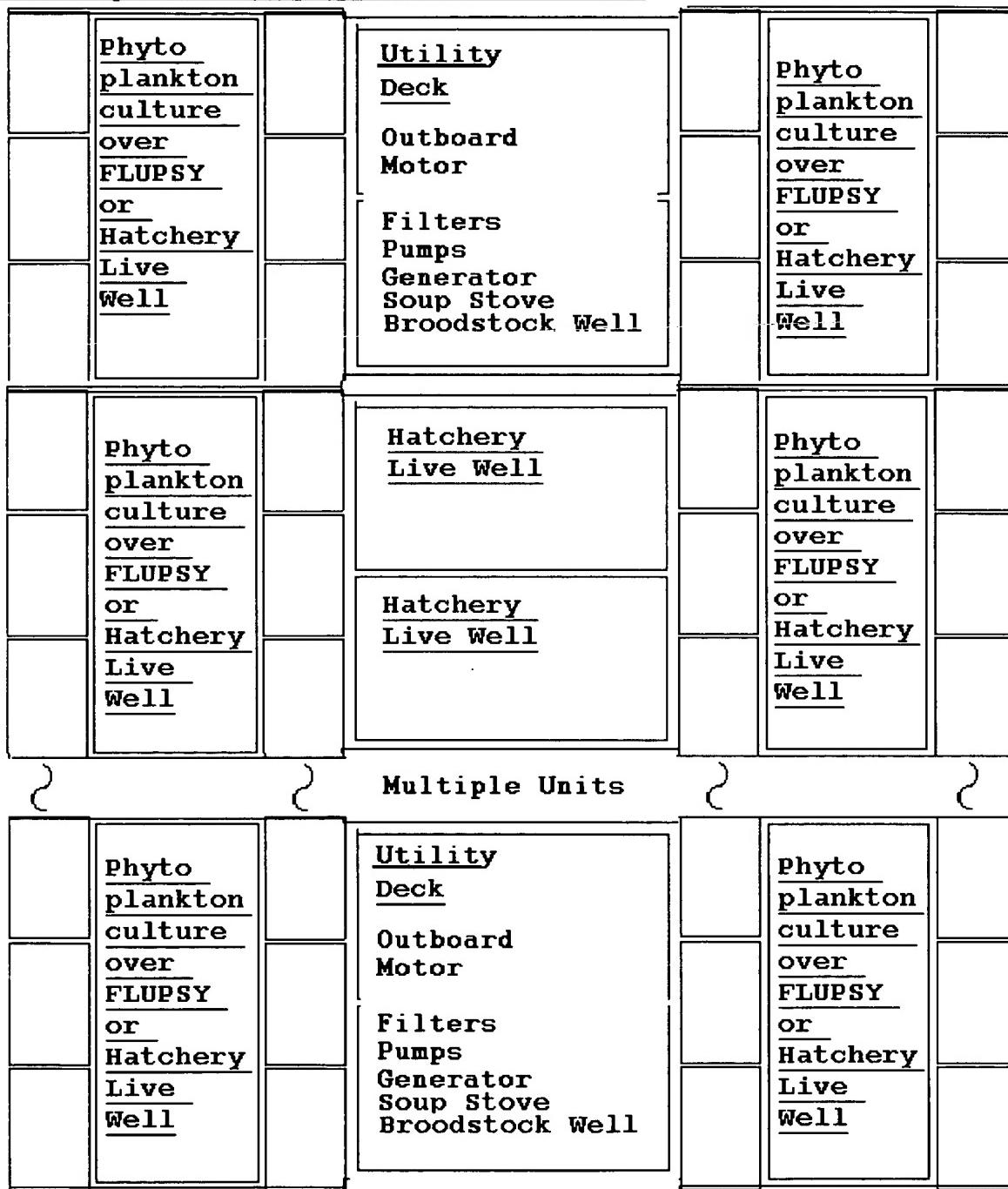


FIG. 6 – SpawnToon Motorboat "The Mama Cass Ostrea"



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FIG. 7 – Phytoplankton Culture: Culture Bag w/fittings, Stretcher resting on two pontoons

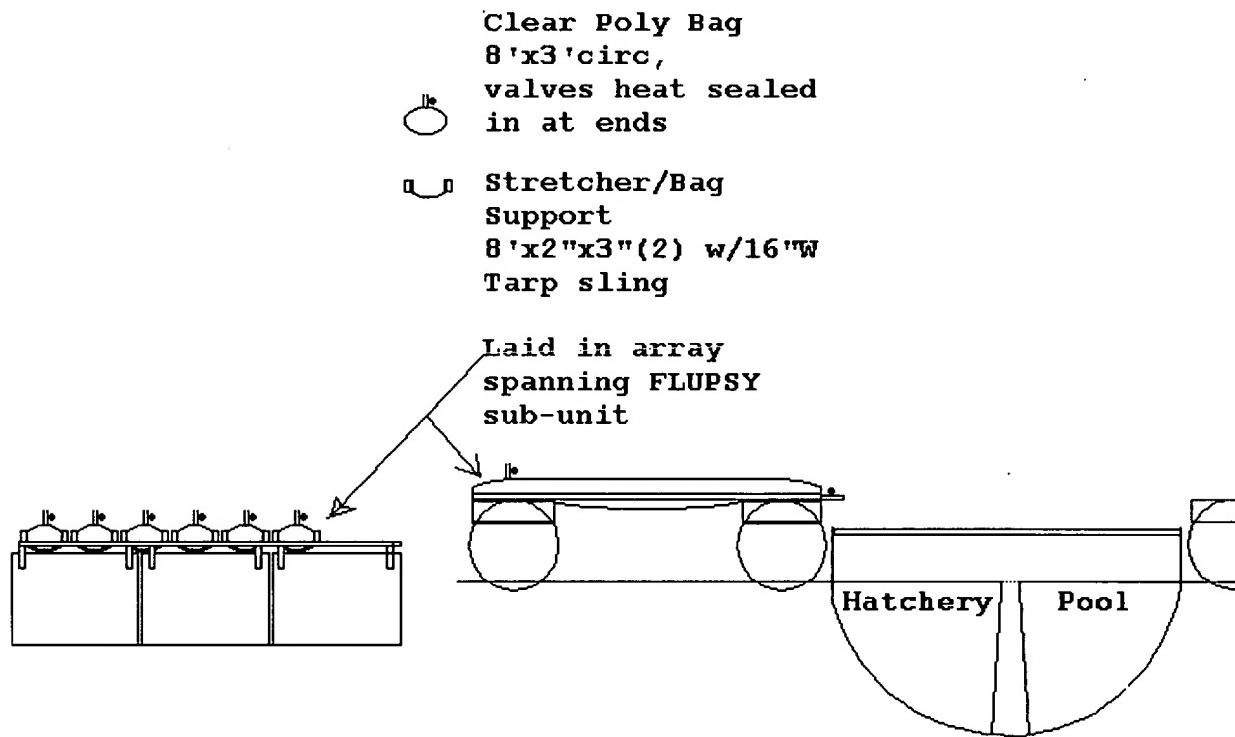
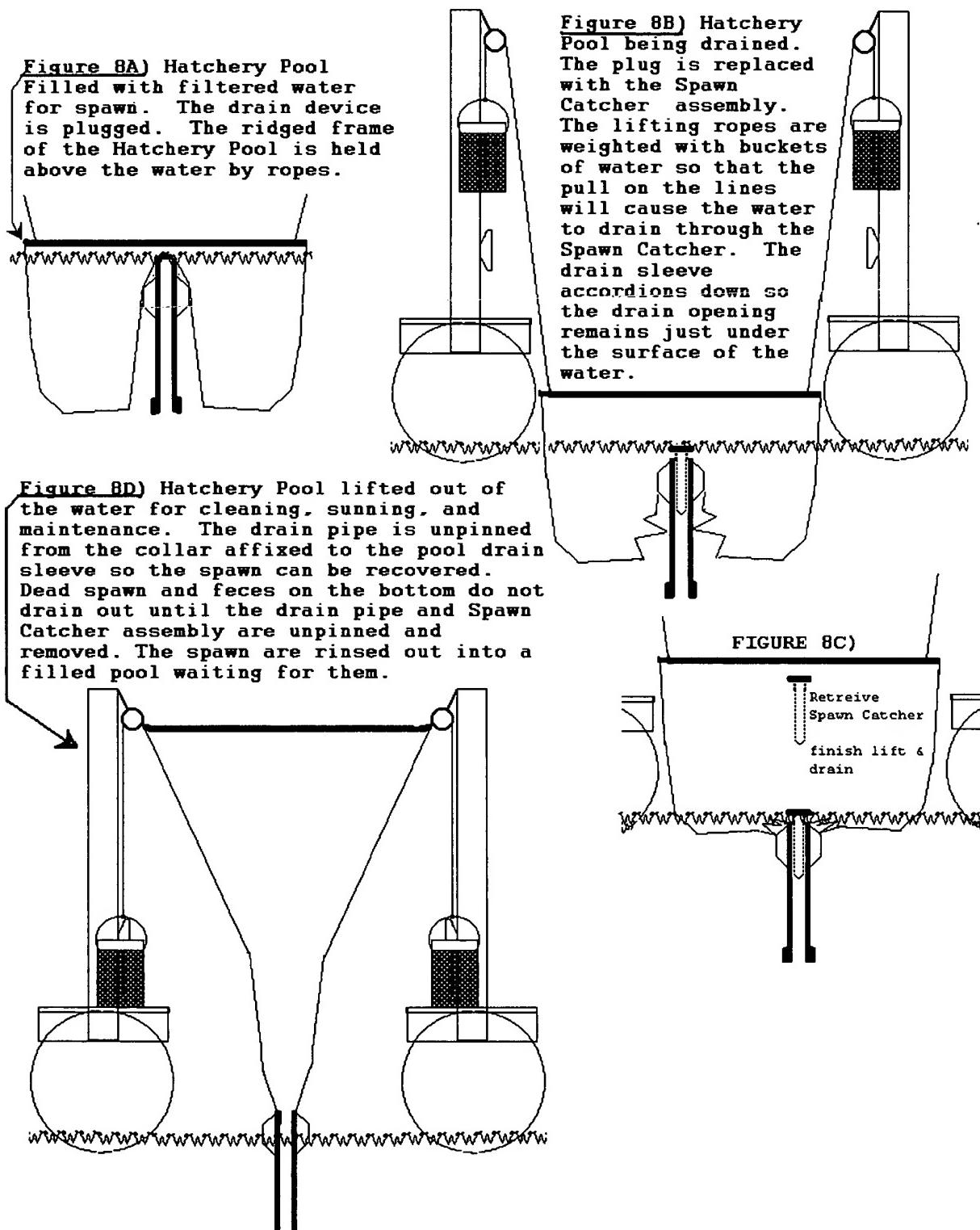


FIG. 8 – Hatchery Live Well Drain-Sleeve and Spawn Catcher



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FIG. 9 - Outboard Motor Mount (with DAVIS NOZZLE) slung underneath SpawnToon deck, Profile of the Tubular Shroud surrounding the propeller and bolted to the cavitation plate

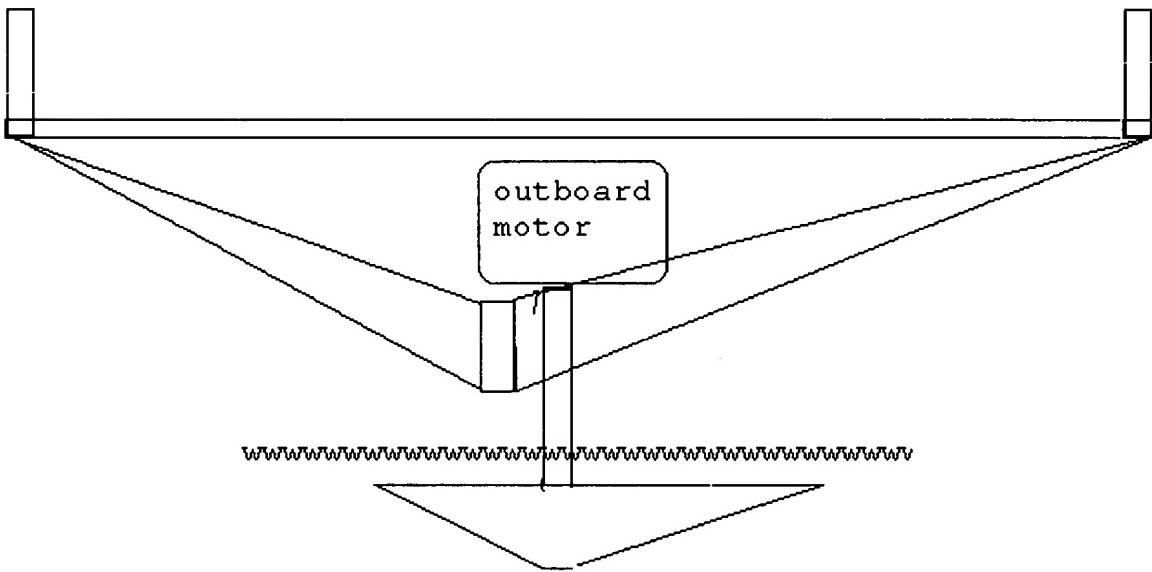


FIG. 10 - Davis Harpoon anchor

Figure 10) DAVIS HARPOON ANCHOR

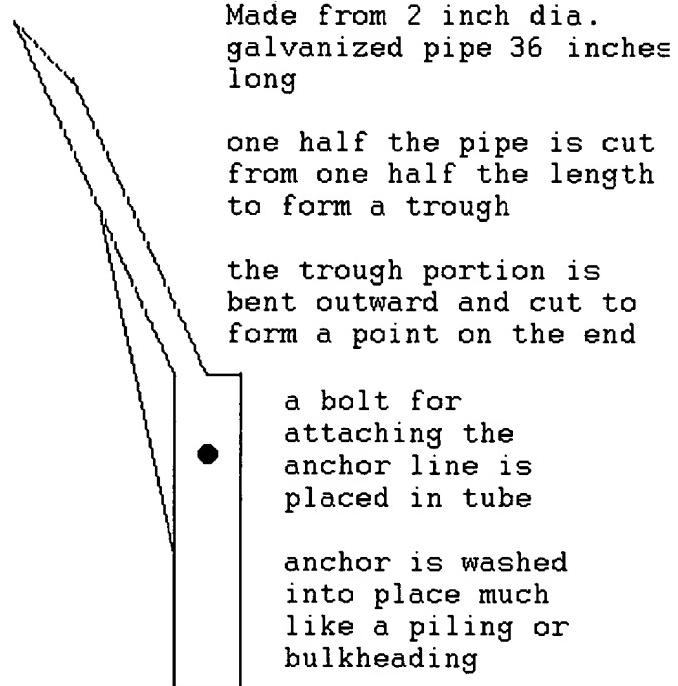


Figure 11 A) TWWELLER : side view

Two Way Upweller/Downweller Shellfish Growing Device

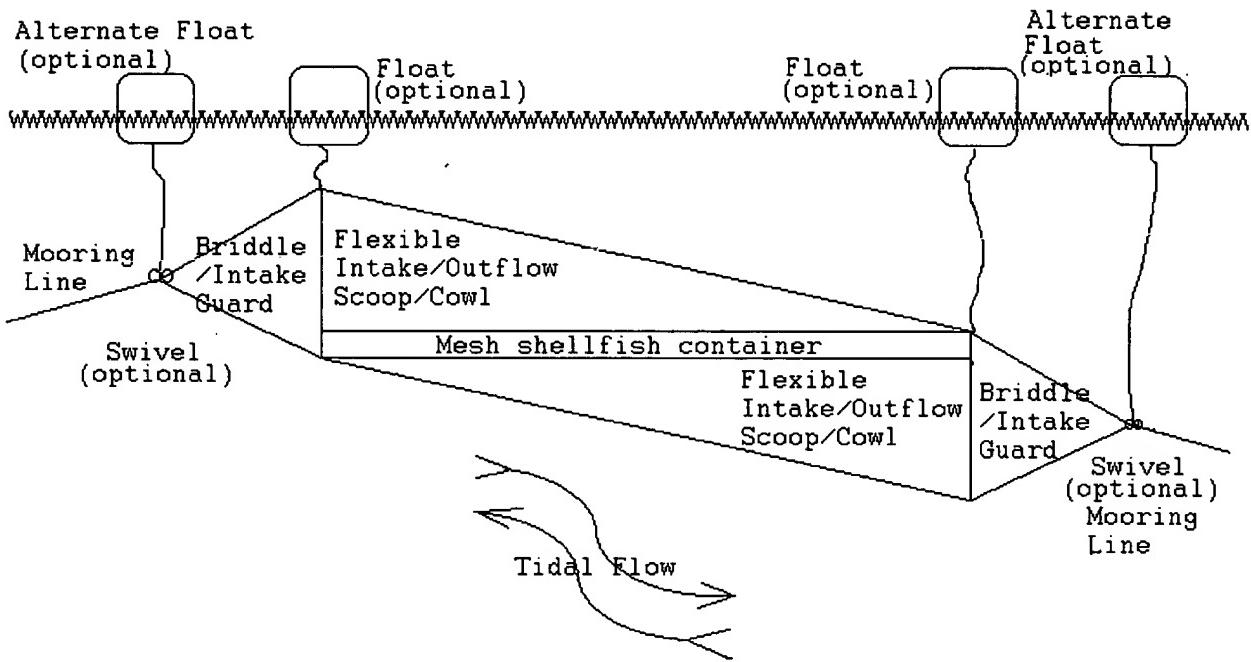


FIGURE 11 B) TWWELLER: end view

Rotating Option
on swiveled mooring

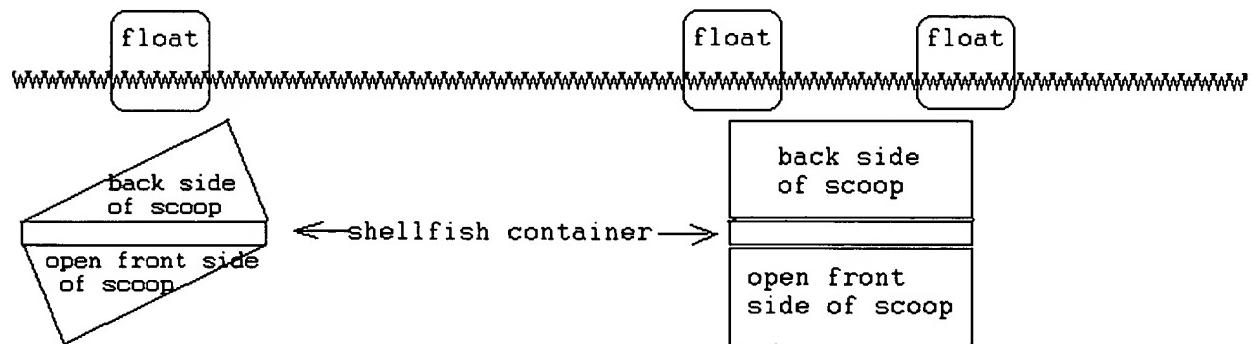
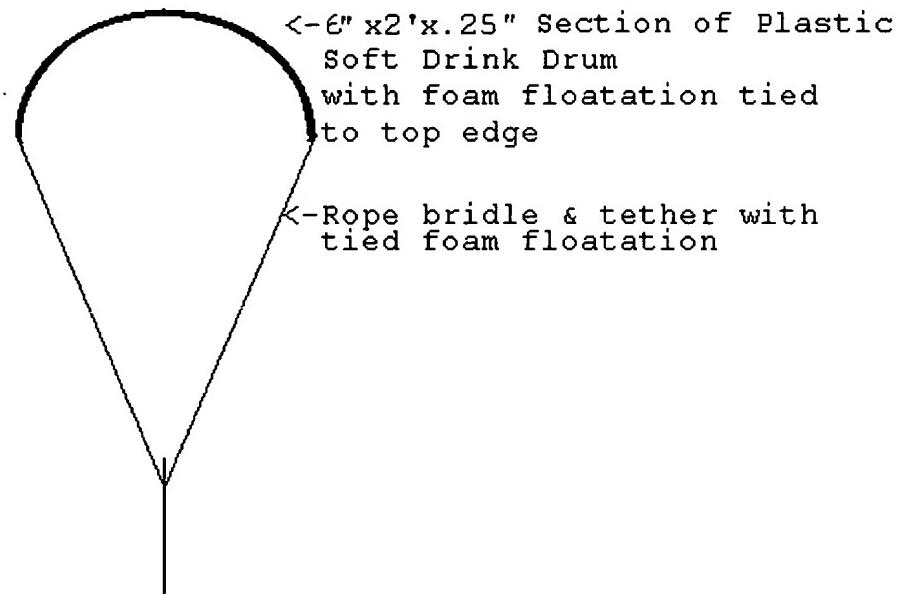


FIG. 11 - TWWELLER

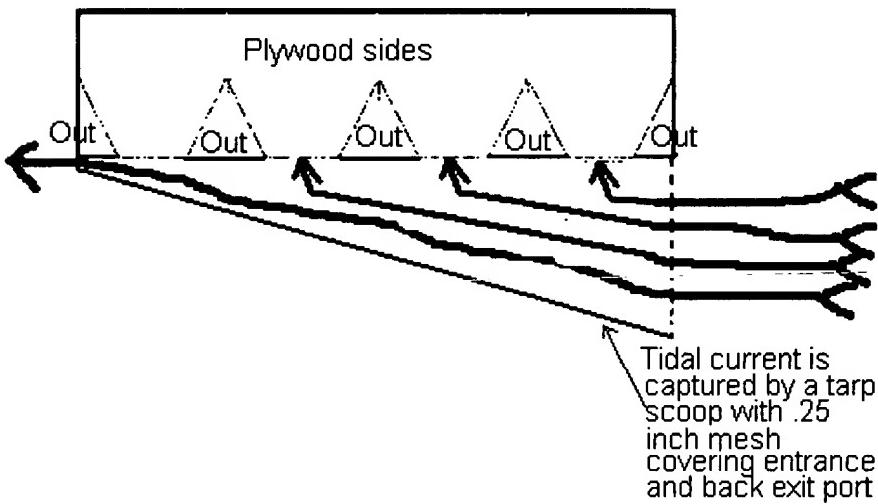
FIG. 12 – Float-Drogue

Figure 12) Float-Drogue



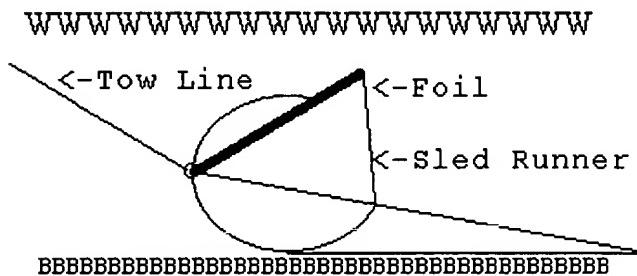
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FIG. 13 Grounding Tolerant FLUPSY scoop of CLAIM 9 servicing a crenellated Marsupium.
Side View



Water out through triangular ports in the side
after passing through a 38 micron mesh crenellation panel
Plywood panel separates inbound water from outbound
water in the crenellation

FIG. 14 – Resuspension Drag Foil of CLAIM 17



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FIG. 15 – Waffle Bulkhead

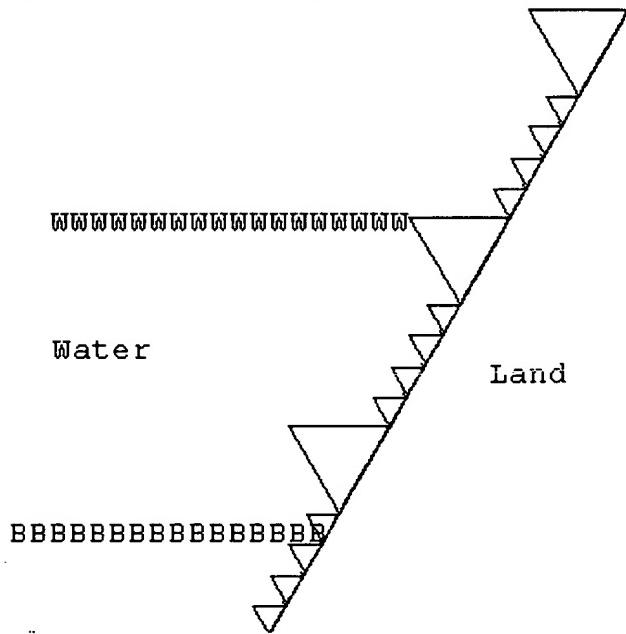
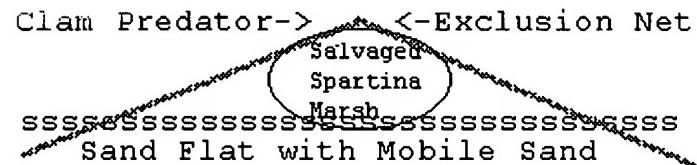


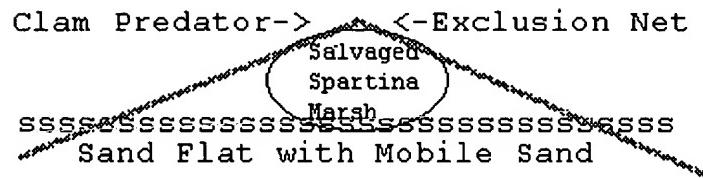
FIG. 16 – Shellfish Geostructure of CLAIM 11



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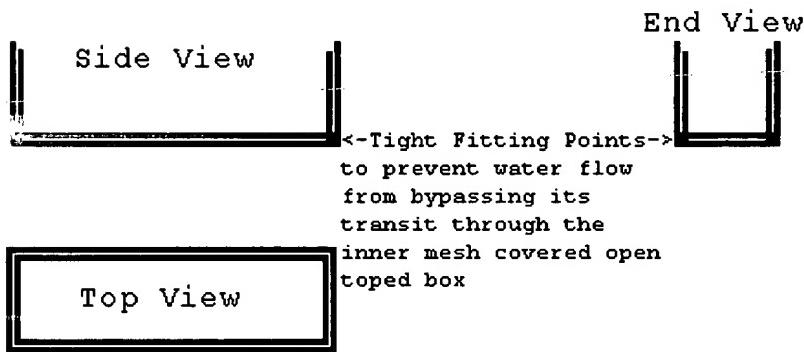
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FIG. 17 – BUPSY of CLAIM 8 (for low current or under possible boat traffic)



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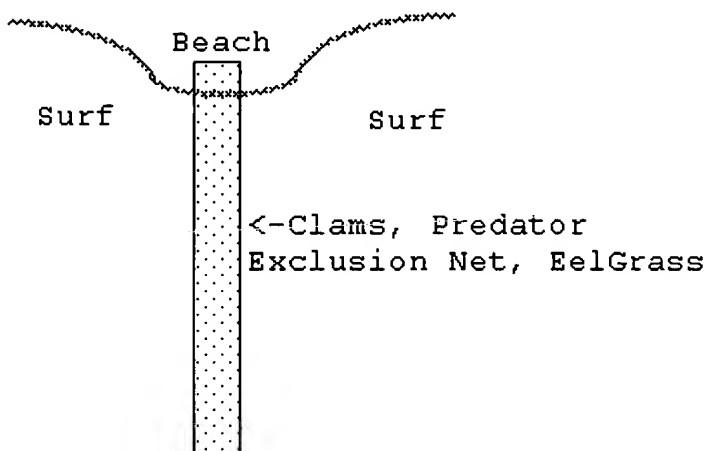
FIG. 18 – Shellfish Hatchery-Nursery Container of CLAIM 16: Set of two nested open top
Self Cleaning screen set of CLAIM 7 used by the Marsupium



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FIG. 19 – Shellfish:SAV Polyculture Groin and Breakwater Substitute of CLAIM 18



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FIG. 20 Foil Array of CLAIM 10 used for current powered directional sediment Transport

